Complete if Known 10/024164 Substitute for form 1449A/PTO **Application Number** Filing Date
First Named Inventor INFORMATION DISCLOSURE 18 December 2001 Talin et al. STATEMENT BY APPLICANT Group Art Unit 2879 Examiner Name (use as many sheets as necessary) Attorney Docket Number CR00-29 Sheet of 4

			U. S. PATENT DOCUMENTS		
Examiner Initials*	Cite No.	U.S. Patent Document Number Kind Code ³ (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
Q.	1	5872422	Xu et al.	2/16/99	
	2	5773921	Keesmann et al.	6/30/98	
V	3	6514113 B1	Lee et al.	2/4/03	
	-				
	-				

			FORE	IGN P	ATENT DOCUMEN	TS		
Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or	Date of Publication	Pages, Columns, Lines, Where	T
	lnitials*	<u> </u>	Office ³	Number ⁴ Kind Code ² (if known)		Applicant of Cited Document	of Cited Document MM-DD-YYYY	Relevant Possages or Relevant Figures Appear
	 	,						┾
								+
								I
	 				<u> </u>	-		╀
	 							+-
								I
	<u></u>							┺
	<u> </u>	<u> </u>		L			<u></u>	

Examiner
Signature

Date
Considered

Considered

Signature

EXAMINER: Initial if reference considered, whether or not-estation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See Kindy of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

Complete if Known Substitute for form 1449A/PTO **Application Number** 10/024164 INFORMATION DISCLOSURE STATEMENT BY APPLICANT 18 December 2001 Filing Date Talin et al. First Named Inventor Group Art Unit 2879 (use as many sheets as necessary) Examiner Name CR00-029 of Attorney Docket Number Sheet 2

Examiner	Cite	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,	Τ		
Initials* No. 1		magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
2	4	Xu et al., "A method for fabricating large-area, patterned, carbon nanotube field emitters," Applied Physics Letters, Vol. 74, No. 17, 26 April 1999, pp. 2549-2551.			
	5	Fan et al., "Self-oriented regular arrays of carbon nanotubes and their field emission properties," Science, Vol. 283, 22 January 1999, pp. 512-514.			
	6	Suh et al, "Highly ordered two-dimensional carbon nanotube arrays," Applied Physics Letters, Vol. 75, No. 14, 4 October 1999, pp. 2047-2049.	1		
	7	Hernadi et al. "Catalytic synthesis of carbon nanotubes using zeolite support," Zeolites 17, 1996, pp. 416-423.			
	8	Murakami et al., "Field emission from well-aligned, patterned, carbon nanotube emitters," Applied Physics Letters, Vol. 76, No. 13, 27 March 2000, pp. 1776-1778.			
	9	Ma et al., "Polymerized carbon nanobells and their field-emission properties," Applied Physics Letters, Vol. 75, No. 20, 15 November 1999, pp. 3105-3107.			
	10	Li et al, "Highly-ordered carbon nanotube arrays for electronics applications," Applied Physics Letters, Vol. 75, No. 3, 19 July 1999, pp. 367-369.	1		
	11	Terrones et al., "Controlled production of aligned-nanotube bundles," Nature, Vol. 388, 3 July 1997, pp.52-55.			
	12	Xu et al., "Controlling growth and field emission property of aligned carbon nanotubes on porous silicon substrates," Applied Physics Letters, Vol. 75, No. 4, 26 July 1999, pp. 481-483.			
	13	Tsai et al., "Bias-enchanced nucleation and growth of the aligned carbon nanotubes with open ends under microwave plasma synthesis," Applied Physics Letters, Vol. 24, No. 23, 7 June 1999, pp. 3462-3464.			
\bigvee	14	Kind et al., "Patterned films of nanotubes using microcontact printing of catalysts," Advanced Materials, 11, No. 15, 1999, pp. 1285-1289.	ĺ		

Examiner Signature

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not is conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English Language Translation is attached.

DEC 1 5 2003

Please type a plus sign (+) inside this box.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Of 4

(use as many sheets as necessary)

Complete if Known			
Application Number	10/024164		
Filing Date	18 December 2001		
First Named Inventor	Talin et al.		
Group Art Unit	2879		
Examiner Name			
Attorney Docket Number	CR00-029		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Cite No. 1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				
15		Nilsson et al., "Scanning field emission from patterned carbon nanotube films." Applied Physics Letters, Vol. 76. No. 15, 10 April 2000, pp. 2071-2073.				
	16	Kuttel et al, "Electron field emission from phase pure nanotube films grown in a methane/hydrogen plasma," Applied Physics Letters, Vol. 73, No. 15, 12 October 1998, pp. 2113-2115.				
	17	Ren et al., "Synthesis of large arrays of well-aligned carbon nanotubes on glass," Science, Vol. 282 6 November 1998, pp. 1105-1107.				
	18	Ren et al. "Growth of a single freestanding multiwall carbon nanotube on each nanonickel dot," Applied Physics Letters, Vol 75, No. 8 23 August 1999, pp. 1086-1088.				
	19	Pan et al., "Very long carbon nanotubes," Nature, Vol. 394, 13 August 1998, pp. 631-632.				
	20	Zhang et al., "A flat panel display device fabricated by using carbon nanotubes cathode," IEEE, 2001, pp. 193-194.				
	21	Zhong et al., "Large-scale well aligned carbon nitride nanotube films: Low temperature growth and electron field emission," Journal of Applied Physics, Vol. 89, No. 11, 1 June 2001, pp. 5939-5943.				
	22	Kim et al., "Growth and field emission of carbon nanotubes on electroplated Ni catalyst coated on glass substrates," Journal of Applied Physics, Vol. 90, 1 September 2001, pp.2591-2594.				
	23	Gulyaev et al., "Field emitter arrays on nanotube carbon structure films," J. Vac.Sci. Technol. B 13(2), Mar/Apr 1995, pp. 435-436.				
	24	Chernozatonskii, et al. "Nanotube carbon structure tips – a source of high field emission of electrons," Mat. Res.Soc. Symp. Proc., Vol. 359. 1995 Materials Research Society, pp. 99-104.				
	25 .	Su et al., "A scalable CVD method for the synthesis of single-walled carbon nanotubes with high catalyst productivity," Chemical Physics Letters 322, (2000), pp 321-326.				

Examiner
Signature

EXAMINER: Initial if reference considered, whether or not chain is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English Language Translation is attached.

Please type a plus sign (+) inside this box.

Please type a plus sign (+) inside this box. Complete if Known 10/024164 INFORMATION DISCLOSURE Application Number STATEMENT BY APPLICANT Filing Date 18 December 2001 First Named Inventor Talin et al. Group Art Unit (use as many sheets as necessary) 2879 Examiner Name Attorney Docket Number CR00-029 of 4 4

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
Q	26	Li et al. "Large-scale synthesis of aligned carbon nanotubes," Science, Vol. 274, 6 December 1996, pp. 1701-1703	
	27	Cassell et al. "Large scale CVD synthesis of single-walled carbon nanotubes," J. Phys. Chem. B. 1999, 103, pp. 6484-6492.	
	28	Cassell et al. "Directed growth of free-standing single walled carbon nanotubes," J. Am. Chem. Soc. 1999, 121, pp. 7975-7976.	
	29	Cassell et al, "Combinatorial optimization of heterogeneous catalysts used in the growth of carbon nanotubes," Langmuir 2001, 17, pp. 260-264.	
V	30	Li et al, "Large-scale synthesis of aligned carbon nanotubes," Science, Vol. 274, 6 December 1996, pp. 1701-1703.	
		·	
		.·	
Examiner	 -(Date 5 6 6	· ————————————————————————————————————

Signature

EXAMINER: Initial if reference considered, whether of not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English Language Translation is attached.